AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A microphone comprising:
- a) a plurality of electrical contacts for interfacing with an external device;
- 3 and
- b) a circuit, connected to at least one electrical contact, that provides the
- 5 external device with data about the microphone that identifies at least one of
- 6 the following: the microphone manufacturer, the microphone manufacture
- 7 date, the microphone model number, the microphone serial number, the
- 8 microphone frequency response, whether the microphone uses phantom
- 9 power, the desired pre amplifier gain, and the microphone dynamic response.
- 1 2. (Original) The microphone of claim 1 where the circuit forces the voltage
- 2 potential between the at least one electrical contact and another of the plurality of
- 3 electrical contacts to be zero.

- 1 3. (Original) The microphone of claim 1 where the circuit forces the voltage
- 2 potential between the at least one electrical contact and a ground electrical contact
- 3 to be zero.
- 4. (Original) The microphone of claim 1 where the circuit includes a resistor
- 2 having a first and a second terminal, the first resistor terminal being connected to
- 3 the at least one electrical contact, the second resistor terminal connected to
- 4 another of the plurality of electrical contacts.
- 5. (Original) The microphone of claim 1 where the circuit includes a capacitor
- 2 having a first and a second terminal, the first capacitor terminal being connected
- 3 to the at least one electrical contact, the second capacitor terminal connected to
- 4 another of the plurality of electrical contacts.
- 1 6. (Original) The microphone of claim 1 where the circuit includes an inductor
- 2 having a first and a second terminal, the first inductor terminal being connected to
- 3 the at least one electrical contact, the second inductor terminal connected to
- 4 another of the plurality of electrical contacts.
- 1 7. (Original) The microphone of claim 1 where the circuit includes a
- 2 programmable read only memory storing data that identifies at least one of the
- 3 following: the microphone manufacturer, the microphone manufacture date, the

- 4 microphone model number, the microphone serial number, the microphone
- 5 frequency response, whether the microphone uses phantom power, the desired
- 6 pre-amplifier gain, and the microphone dynamic response.
- 1 8. (Original) The microphone of claim 1 where the circuit includes a serial
- 2 programmable read only memory storing data that identifies at least one of the
- 3 following: the microphone manufacturer, the microphone manufacture date, the
- 4 microphone model number, the microphone serial number, the microphone
- 5 frequency response, whether the microphone uses phantom power, the desired
- 6 pre-amplifier gain, or the microphone dynamic response.
- 1 9. (Original) The microphone of claim 1 where the circuit includes a serial
- 2 electrically erasable programmable read only memory storing data that identifies
- 3 at least one of the following: the microphone manufacturer, the microphone
- 4 manufacture date, the microphone model number, the microphone serial number,
- 5 the microphone frequency response, whether the microphone uses phantom
- 6 power, the desired pre-amplifier gain, or the microphone dynamic response.
- 1 10. (Currently amended) An interface unit comprising:
- a) a first connector having a plurality of electrical contacts for interfacing
- with a microphone; and

- b) a second connector having a plurality of electrical contacts for interfacing
- 5 with a computer system via a digital bus;
- 6 wherein the interface unit is operable to obtain data from the microphone,
- about the microphone, related to at least one of the following: the microphone
- 8 manufacturer, the microphone manufacture date, the microphone model
- 9 number, the microphone serial number, the microphone frequency response,
- 10 whether the microphone uses phantom power, the desired pre-amplifier gain,
- and the microphone dynamic response; and
- wherein the interface unit is operable to transmit the data to the computer
- 13 system.
- 1 11. (Original) The interface unit of claim 10 further comprising:
- 2 c) an amplifier for amplifying an analog signal received from the
- 3 microphone;
- d) an analog-to-digital converter, coupled to the amplifier;
- e) a buffer, coupled to the analog-to-digital converter;
- 6 f) a bus interface coupled to the buffer; and
- 7 g) an I/O port for communicating with a computer system.
- 1 12. (Original) The interface unit of claim 11, wherein the analog-to-digital
- 2 converter is also coupled to a microphone bias circuit.

- 1 13. (Original) The interface unit of claim 11, wherein the analog-to-digital
- 2 converter is also coupled to a microphone bias circuit that contains a resistor
- 3 having a first terminal and a second terminal, the first resistor terminal connected
- 4 to at least one of the first connector's plurality of electrical contacts.
- 1 14. (Original) The interface unit of claim 11, wherein the first connector's
- 2 plurality of electrical contacts includes a first electrical contact and a second
- 3 electrical contact;
- 4 wherein the bus interface is coupled to the first electrical contact, which contains a
- 5 serial clock signal; and
- 6 wherein the bus interface is coupled to the second electrical contact, which
- 7 contains serial data signals.
- 1 15. (Original) The interface unit of claim 11, further comprising a switch that is
- 2 configured to identify a physical parameter of a microphone.
- 1 16. (Original) The interface unit of claim 15, wherein the switch is coupled to the
- 2 bus interface.
- 1 17. (Original) The bus interface of claim 10 further comprising a third connector
- 2 for interfacing with a second microphone.

- 1 18. The interface unit of claim 10 further comprising a third connector for
- 2 interfacing with another interface unit.
- 1 19. (Currently amended) A microphone comprising:
- a) a connector having a plurality of electrical contacts for interfacing with a
- 3 computer system via a digital bus; and
- b) wherein the microphone is operable to transmit data about the microphone
- to the computer system via the connector-related to at least one of the
- 6 following: the microphone manufacturer, the microphone manufacture date,
- 7 the microphone model number, the microphone serial number, the microphone
- 8 frequency response, whether the microphone uses phantom power, the desired
- 9 pre-amplifier gain, and the microphone dynamic response.
- 1 20. (Original) The microphone of claim 19 further comprising a programmable
- 2 read only memory storing data that identifies at least one of the following: the
- 3 microphone manufacturer, the microphone manufacture date, the microphone
- 4 model number, the microphone serial number, the microphone frequency
- 5 response, whether the microphone uses phantom power, the desired pre-amplifier
- 6 gain, and the microphone dynamic response.
- 1 21. (Original) The microphone of claim 19 further comprising a serial
- 2 programmable read only memory storing data that identifies at least one of the

- 3 following: the microphone manufacturer, the microphone manufacture date, the
- 4 microphone model number, the microphone serial number, the microphone
- 5 frequency response, whether the microphone uses phantom power, the desired
- 6 pre-amplifier gain, or the microphone dynamic response.
- 1 22. (Original) The microphone of claim 19 further comprising a serial electrically
- 2 erasable programmable read only memory storing data that identifies at least one
- 3 of the following: the microphone manufacturer, the microphone manufacture date,
- 4 the microphone model number, the microphone serial number, the microphone
- 5 frequency response, whether the microphone uses phantom power, the desired
- 6 pre-amplifier gain, or the microphone dynamic response.
- 1 23. (Currently amended) A method of transferring data to a computer system, the
- 2 method comprising:

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- a) interfacing a microphone with an interface unit;
- b) interfacing the interface unit with a computer system; and
- 5 c) transferring data about the microphone from the interface unit to the
- 6 computer system, the data related to at least one of the following: the
- 7 microphone manufacturer, the microphone manufacture date, the microphone
- 8 | model number, the microphone serial number, the microphone frequency
- 9 response, whether the microphone uses phantom power, the desired pre-
- 10 amplifier gain, and the microphone dynamic response.

- 1 24. (Original) The method of claim 23, further comprising modifying at least one
- 2 setting in the computer system based at least in part on the transferred data.
- 1 25. (Original) The method of claim 23, further comprising modifying at least one
- 2 setting in the interface unit based at least in part on the transferred data.
- 1 26. (Currently amended) A method of transferring data to a computer system, the
- 2 method comprising:

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- a) interfacing a microphone with a computer system; and
- b) transferring data about the microphone, from the microphone to the
- 5 computer system, the data related to at least one of the following: the
- 6 microphone manufacturer, the microphone manufacture date, the microphone
- 7 model number, the microphone serial number, the microphone frequency
- 8 response, whether the microphone uses phantom power, the desired pre-
- 9 amplifier gain, and the microphone dynamic response.
- 1 27. (Original) The method of claim 26, further comprising modifying at least one
- 2 setting in the computer system based at least in part on the transferred data.
- 1 28. (Original) The method of claim 26, further comprising modifying at least one
- 2 setting in the microphone based at least in part on the transferred data.

- 1 29. (New) The microphone of claim of 1, wherein the data about the microphone
- 2 identifies at least one of the following: the microphone manufacturer, the
- 3 microphone manufacture date, the microphone model number, the microphone
- 4 serial number, the microphone frequency response, whether the microphone uses
- 5 phantom power, the desired pre-amplifier gain, and the microphone dynamic
- 6 response.
- 1 30. (New) The interface unit of claim of 10, wherein the data about the
- 2 microphone is related to at least one of the following: the microphone
- 3 manufacturer, the microphone manufacture date, the microphone model number,
- 4 the microphone serial number, the microphone frequency response, whether the
- 5 microphone uses phantom power, the desired pre-amplifier gain, and the
- 6 microphone dynamic response.
- 1 31. (New) The microphone of claim 19, wherein the data transmitted is related to
- 2 at least one of the following: the microphone manufacturer, the microphone
- 3 manufacture date, the microphone model number, the microphone serial number,
- 4 the microphone frequency response, whether the microphone uses phantom
- 5 power, the desired pre-amplifier gain, and the microphone dynamic response.
- 1 32. (New) The method of claim 23, wherein the data about the microphone is
- 2 related to at least one of the following: the microphone manufacturer, the

- 3 microphone manufacture date, the microphone model number, the microphone
- 4 serial number, the microphone frequency response, whether the microphone uses
- 5 phantom power, the desired pre-amplifier gain, and the microphone dynamic
- 6 response.
- 1 33. (New) The method of claim 26, wherein the data about the microphone is
- 2 related to at least one of the following: the microphone manufacturer, the
- 3 microphone manufacture date, the microphone model number, the microphone
- 4 serial number, the microphone frequency response, whether the microphone uses
- 5 phantom power, the desired pre-amplifier gain, and the microphone dynamic
- 6 response.